



DIALOGIP™

**EXCIMER LASER OSCILLATOR****Publication Number:** 05-347448 JP 5347448 A**Published:** December 27, 1993**Inventor:**

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To supply halogen gas with high accuracy in an excimer laser oscillator having a halogen-gas supply means using a light-emitting device and a photodetector.

CONSTITUTION

An excimer laser oscillator has a halogen-gas supply means obtaining halogen gas concentration C in a

laser gas from the light intensity I of laser-gas transmitted light from a light-emitting device 1, in which a photodetector 2 receives light, and supplying the inside of the laser gas with halogen gas so that halogen gas concentration C reaches target concentration C_0 . The halogen-gas supply means corrects halogen gas concentration C by the lowering section of light intensity based on the fouling, etc., of the windows of the light-emitting device 1 and the photodetector 2, and feeds the inside of the laser gas with halogen gas so that corrected halogen gas concentration C reaches target concentration C_0 .

JAPIO

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